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- Relevancy (descending)
- Title (ascending)
- Open Date (ascending)
- Close Date (descending)
- Release Date (descending)

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Displaying 21 - 30 of 1117 results

1. T4.02 : Dynamic Servoelastic (DSE) Network Control, Modeling, and Optimization

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: DFRC Participating Center(s): ARC, JPL, LaRC OCT Technology Area: TA04 This subtopic addresses advanced control-oriented techniques for dynamic servoelastic (DSE) terrestrial, planetary, and space environment flight systems using distributed network sensor and control systems. Methods include modeling, simulation, optimization and stabilization of DSE systems to actively and/or adapt ...

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2. A3.03: Low Emissions/Clean Power

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: GRC Proposals are sought which support electric propulsion of transport aircraft, which includes various hybrid electric concepts, such as gas turbine engine-battery combinations and turboelectric propulsion (turbine prime mover with electric distribution of power to propulsors). Turboelectric propulsion for aircraft applications will require high specific power (hp/lb or kW/kg) and ...

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3. T4.03 : Extreme Particle Flow Physics Simulation Capability

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: KSC OCT Technology Area: TA04 Advanced computer modeling software is sought to provide the ability to predict the flow of granular materials in space and/or planetary environments. Proposals are sought for software capable of handling one of more of the following applications in one or more relevant environments for space exploration: • Rovers driving on planetary regolith. • Ro ...

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4. T5: Communication and Navigation

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Communications and Navigation Systems, consists of six technology subareas: optical communication and navigation; radio frequency communication; internetworking; position, navigation and timing; integrated technologies; and revolutionary concepts. Communication links are the lifelines to spacecraft, providing commanding, telemetry, and science data transfers as well as navigation support. Therefor ...

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5. T5.01 : Autonomous Navigation in GNSS-Denied Environments

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: LaRC Participating Center(s): KSC OCT Technology Area: TA05 Current NASA research/development and mission capabilities for exploration of remote planetary surfaces and UASs are primarily focused on automated telerobotic systems dependent on human control. More fully autonomous systems will be required for future missions, particularly where communications with Earth may be limited, u ...

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6. A3.04: Aerodynamic Efficiency- Drag Reduction Technology

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: LaRC The challenge of energy-efficient flight has at its foundation aerodynamic efficiency, and at the foundation of aerodynamic efficiency is low drag. Drag can be broadly decomposed into four components: viscous or skin friction drag, lift-induced drag, wave or compressibility drag, and excrescence drag due to various protruding items such as antennae, wipers, lights, etc. The r ...

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7. A3.05: Controls/Dynamics- Propulsion Systems

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: GRC Participating Center(s): DFRC Propulsion controls and dynamics research is being done under various projects in the Fundamental Aeronautics Program (FAP). For turbine engines, work on Distributed Engine Control (DEC) and Model-Based Engine Control (MBEC)is currently being done under the Subsonic Fixed Wing (SFW) project, and Active Combustion Control research is currently being d ...

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8. A3.06: Physics-Based Conceptual Design Tools

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: GRC Participating Center(s): LaRC Conceptual design and analysis of unconventional vehicle concepts and technologies is needed for technology portfolio investment planning, development of advanced concepts to provide technology pull and independent technical assessment of new concepts. The aerospace flight vehicle conceptual design phase is the most important step in the product deve ...

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9. T6: Human Health, Life Support and Habitation Systems

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Human Health, Life Support and Habitation Systems, includes technologies necessary for supporting human health and survival during space exploration missions and consists of five technology subareas: environmental control and life support systems and habitation systems; extravehicular activity systems; human health and performance; environmental monitoring, safety, and emergency response; and radi ...

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10. A3.07: Rotorcraft

Release Date: 09-17-2012Open Date: 09-17-2012Due Date: 11-29-2012Close Date: 11-29-2012

Lead Center: ARC Participating Center(s): GRC, LaRC The challenge of the Rotary Wing thrust of the NASA Fundamental Aeronautics Program is to develop and validate tools, technologies and concepts to overcome key barriers for rotary wing vehicles. Technologies of particular interest are as follows: • Modeling and Analysis for Conceptual Design and Sizing -Tools are sought that enable rotorcraft ...

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- First
- Previous
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- …
- Next
- Last

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